

Title (en)
Microphone having a flexible printed circuit board for mounting components

Title (de)
Mikrofon mit einer flexiblen Leiterplatte zur Bestückung mit Komponenten

Title (fr)
Microphone comportant un circuit imprimé flexible pour le montage de composants

Publication
EP 1303164 A3 20060816 (EN)

Application
EP 02079187 A 20021009

Priority
US 32780601 P 20011009

Abstract (en)
[origin: US2003068059A1] In a microphone cartridge, a flexible printed circuit board serves two functions, separating the diaphragm and backplate, and electrically connecting the cartridge and the buffer amplifier. The flex-print includes a spacer portion that maintains the appropriate distance between the diaphragm and backplate, and an integral lead portion having a conductor serving as the signal path for transmitting the signal from the cartridge to the amplifier. The spacer portion has a conductor that electrically contacts the diaphragm or backplate and is connected to the conductor of the integral lead portion. The integral lead portion may optionally include a second electrical conductor providing a reference path from the cartridge to the amplifier. Further, the flex-print may be used as the carrier for the amplifier, its associated circuitry, and for other circuitry within the listening device. And, the flex-print may be used as a portion of the diaphragm subassembly and/or the backplate subassembly

IPC 8 full level
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CPC (source: EP US)
H04R 19/016 (2013.01 - EP US); **H05K 1/189** (2013.01 - EP US)

Citation (search report)
• [XA] US 5881158 A 19990309 - LESINSKI S GEORGE [US], et al
• [XA] EP 0499237 A2 19920819 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by
CN108777835A; DE102008013395B4; DE102007014579A1; DE102007014579B4; US8818004B2; US8184833B2; WO2009079035A1; EP2266327A1

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